Fri Wk 13 Exam 4 take Hone: Posted Today: 11-4 Homework Man-wed-Fri: Review (Study Guide

Final: tuesday Monday Similar to rectangular coords: y=g(x) y=f(x)subtraction is key even in Polar setting! (f (4) - (g (4) r=2cos(0) what is the shaded area to find the green area below r= 1=20080 11/3 subtract A from B $\cos^{-1}(\frac{1}{2}) = 0$ $\frac{1}{2} \int_{-\pi}^{\pi/3} (2\cos \theta)^{3} d\theta - \frac{1}{2} \int_{-\pi}^{\pi} (1)^{3} d\theta$ In condusin 1

 $\frac{1}{2}\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}}(2\omega so)^{3}da - \frac{1}{2}\int_{-\frac{\pi}{3}}^{\frac{\pi}{3}}(2\omega so)^{3}da - \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}}(1)^{3}da$ To compute integral use.

 $(\omega_{\zeta_{0}}^{2} = \frac{1}{2} (1 + \omega_{\zeta_{0}}(20))$

